 AIR RESOURCES BOARD	John Deere Power Systems	EXECUTIVE ORDER U-R-004-0362 New Off-Road Compression-Ignition Engines
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Pursuant to the authority vested in the Air Resources Board by Sections 43013, 43018, 43101, 43102, 43104 and 43105 of the Health and Safety Code; and

Pursuant to the authority vested in the undersigned by Sections 39515 and 39516 of the Health and Safety Code and Executive Order G-02-003;

IT IS ORDERED AND RESOLVED: That the following compression-ignition engines and emission control systems produced by the manufacturer are certified as described below for use in off-road equipment. Production engines shall be in all material respects the same as those for which certification is granted.

MODEL YEAR	ENGINE FAMILY	DISPLACEMENT (liters)	FUEL TYPE	USEFUL LIFE (hours)
2009	9JDXL06.8104	6.8	Diesel	8000
SPECIAL FEATURES & EMISSION CONTROL SYSTEMS			TYPICAL EQUIPMENT APPLICATION	
Direct Diesel Injection, Turbocharger, Charge Air Cooler, Electronic Control Module, Smoke Puff Limiter			Loaders, Tractor, Pump, Compressor, Generator Set, Other Industrial Equipment	

The engine models and codes are attached.

The following are the exhaust certification standards (STD) and certification levels (CERT) for hydrocarbon (HC), oxides of nitrogen (NO_x), or non-methane hydrocarbon plus oxides of nitrogen (NMHC+NO_x), carbon monoxide (CO), and particulate matter (PM) in grams per kilowatt-hour (g/kw-hr), and the opacity-of-smoke certification standards and certification levels in percent (%) during acceleration (Accel), lugging (Lug), and the peak value from either mode (Peak) for this engine family (Title 13, California Code of Regulations, (13 CCR) Section 2423):

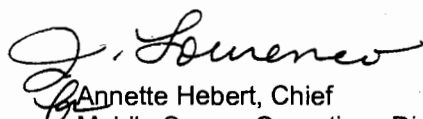
RATED POWER CLASS	EMISSION STANDARD CATEGORY		EXHAUST (g/kw-hr)					OPACITY (%)		
			HC	NO _x	NMHC+NO _x	CO	PM	ACCEL	LUG	PEAK
130 ≤ kW < 225	Tier 3	STD	N/A	N/A	4.0	3.5	0.20	20	15	50
		CERT	--	--	3.6	1.3	0.18	14	3	30

BE IT FURTHER RESOLVED: That for the listed engine models, the manufacturer has submitted the information and materials to demonstrate certification compliance with 13 CCR Section 2424 (emission control labels), and 13 CCR Sections 2425 and 2426 (emission control system warranty).

Engines certified under this Executive Order must conform to all applicable California emission regulations.

This Executive Order is only granted to the engine family and model-year listed above. Engines in this family that are produced for any other model-year are not covered by this Executive Order.

Executed at El Monte, California on this 12th day of December 2008.


Annette Hebert, Chief
Mobile Source Operations Division

U-R-004-0362

Engine Model Summary Form

Manufacturer: John Deere Power Systems
Engine category: Nonroad CI
EPA Engine Family: 9JDXL06.8104
Mfr Family Name: 350HAB
Process Code: New Submission

Attachment p. 1 of 2

1.Engine Code	2.Engine Model	3.BHP@RPM (SAE Gross)	4.Fuel Rate: mm/stroke @ peak HP (for diesel only)	5.Fuel Rate: (lb/hr) @ peak HP (for diesels only)	6.Torque @ RPM (SEA Gross)	7.Fuel Rate: mm/stroke@peak torque	8.Fuel Rate: (lb/hr)@peak torque	9.Emission Control Device Per SAE J1830
6068HF285A	6068H	214.57@2400	103.10@2400	83.40@2400	622.13@1500	126.8@1500	64.05@1500	EM EC SPL
6068HF285B	6068H	199.82@2400	92.80@2400	74.94@2400	578.91@1500	119.33@1500	60.39@1500	EM EC SPL
6068HF285C	6068H	185.07@2400	88.70@2400	70.18@2400	527.29@1500	107.56@1500	54.44@1500	EM EC SPL
6068HF285D	6068H	185.07@2200	92.90@2200	68.94@2200	578.91@1500	120.2@1500	60.81@1500	EM EC SPL
6068HF285K	6068H	237.37@1800	138.20@1800	83.87@1800	N/A	N/A	N/A	EM EC SPL
6068HF285L	6068H	197.14@1800	115.90@1800	70.33@1800	N/A	N/A	N/A	EM EC SPL
6068HCQ82	6068H	209.20@2400	101.10@2400	81.88@2400	557.53@1700	118.5@1700	68.08@1700	EM EC SPL
6068HFS82	6068H	197.14@1800	115.70@1800	70.22@1800	N/A	N/A	N/A	EM EC SPL
6068HFS83	6068H	237.37@1800	138.10@1800	83.87@1800	N/A	N/A	N/A	EM EC SPL
4045HF285K	6068H	197.14@1800	173.80@1800	70.35@1800	N/A	N/A	N/A	EM EC SPL
8068HN055	6068H	189.09@2300	80.00@2300	73.08@2300	548.68@1500	97.4@1500	57.79@1500	EM EC SPL
6068HFC28A	6068H	237.37@1760	140.80@1760	83.60@1760	N/A	N/A	N/A	EM EC SPL
6068HFC28B	6068H	199.82@2400	95.80@2400	77.45@2400	N/A	N/A	N/A	EM EC SPL
6068HFC28C	6068H	199.82@2350	96.80@2350	76.64@2350	N/A	N/A	N/A	EM EC SPL
6068HFC28D	6068H	197.14@2100	106.20@2100	75.27@2100	N/A	N/A	N/A	EM EC SPL
6068HFC28E	6068H	199.82@2400	94.90@2400	76.88@2400	578.91@1500	120.9@1500	61.18@1500	EM EC SPL

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Engine Model Summary Form

Manufacturer: John Deere Power Systems
 Engine category: Nonroad CI
 EPA Engine Family: 9JDXL06.8104
 Mfr Family Name: 350HAB
 Process Code: Running Change

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Attachment P. 2 of 2

1.Engine Code	2.Engine Model	3.BHP@RPM (SAE Gross)	4.Fuel Rate: mm ³ /stroke @ peak HP (for diesel only)	5.Fuel Rate: (lbs/hr) @ peak HP (for diesels only)	6.Torque @ RPM (SEA Gross)	7.Fuel Rate: mm ³ /stroke@peak torque	8.Fuel Rate: (lbs/hr)@peak torque	9.Emission Control Device Per SAE J1930
6068HE050	6068H	199.82@2400	92.60@2400	74.94@2400	578.91@1500	119.33@1500	60.39@1500	EM EC SPL

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